

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

ERKKI HEINONEN

Application No. 10/091,169

Filing Date: March 4, 2002

Group Art Unit: 3736

Examiner:

NON-INVASIVE DETERMINATION OF  
CONDITIONS IN THE CIRCULATORY  
SYSTEM OF A SUBJECT

## PRELIMINARY AMENDMENT

Milwaukee, Wisconsin 53202  
May 10, 2002Box Missing Parts  
Asst. Commissioner for Patents  
Washington, D.C. 20231COPY OF PAPERS  
ORIGINALLY FILED

Sir:

Prior to computing the filing fee in this application, kindly amend the above identified application, as follows. The filing fee is to be computed on the amended claims.

In the Claims:

Claim 6 has been amended as follows:

sub 6. (amended) The method according to claim 1 further including the step of using the value obtained in step (i) to determine the functional cardiac output (FCO) of the subject using a non-differential form of the Fick equation.

Claim 7 has been amended as follows:

7. (amended) The method according to claim 1 further defined as including the steps of:

determining further values for the amount of CO<sub>2</sub> released from the circulatory system of the subject (VCO<sub>2</sub>) and for the quantity indicative of the end capillary blood CO<sub>2</sub> content for breathing of the subject in the first breathing condition; and

using the value provided by the extrapolation of the regression line in step